

**DERWENT-** 2000-201400**ACC-NO:****DERWENT-** 200305**WEEK:***COPYRIGHT 1999 DERWENT INFORMATION LTD*

**TITLE:** Control system of refrigerating cycle for airconditioner, controls compressor and heat exchangers to reduce difference between running condition of high or low pressure side of refrigerating cycle and target

**INVENTOR:** INOUE, S; MIYAMOTO, M ; NONAMI, K

**PATENT-ASSIGNEE:** MITSUBISHI ELECTRIC CORP[MITQ] , INOUE S[INOUI] , MIYAMOTO M [MIYAI] , NONAMI K[NONAI] , MITSUBISHI DENKI KK[MITQ]

**PRIORITY-DATA:** 1998JP-0136639 (May 19, 1998)

**PATENT-FAMILY:**

<b>PUB-NO</b>	<b>PUB-DATE</b>	<b>LANGUAGE</b>	<b>PAGES</b>	<b>MAIN-IPC</b>
US 6499308 B2	December 31, 2002	N/A	000	F25B 029/00
<u>JP 2000039220 A</u>	February 8, 2000	N/A	025	F25B 001/00
US 20020026803 A1	March 7, 2002	N/A	000	F25B 001/00
JP 3334660 B2	October 15, 2002	N/A	025	F25B 001/00

**APPLICATION-DATA:**

<b>PUB-NO</b>	<b>APPL-DESCRIPTOR</b>	<b>APPL-NO</b>	<b>APPL-DATE</b>
US 6499308B2	N/A	1999US-0312700	May 17, 1999
JP2000039220A	N/A	1999JP-0040955	February 19, 1999
US20020026803A1	N/A	1999US-0312700	May 17, 1999
JP 3334660B2	N/A	1999JP-0040955	February 19, 1999
JP 3334660B2	Previous Publ.	JP2000039220	N/A

**INT-CL (IPC):** F25B001/00, F25B029/00 , F25B049/00

**ABSTRACTED-PUB-NO:** JP2000039220A

**BASIC-ABSTRACT:**

NOVELTY - Three operation parts (61,62,63) control the running capacity of a compressor and heat exchange capacities of condensation and evaporation side heat exchangers connected to a refrigerating cycle. A controller (15) controls the operation parts to reduce the difference of

running condition at the high or low pressure side of the refrigerating cycle and a target. DETAILED DESCRIPTION - The refrigerating cycle is formed by connecting the compressor, condensation side heat exchanger, a flow control valve and the evaporation side heat exchangers while circulating a refrigerant through the refrigerating cycle.

USE - For controlling operation of refrigerating cycle in airconditioner such as multisplit airconditioner.

ADVANTAGE - The appropriate capacity of refrigerating cycle can be exhibited quickly, by controlling the running capacity of a compressor and the heat exchange capacities of condensation and evaporation side heat exchangers appropriately to reduce the difference of the running condition on the high or low pressure side of the refrigerating cycle and a target depending on loaded conditions. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram showing the control system composition of refrigerating cycle. (15) Controller; (61,62,63) Operation parts.

**ABSTRACTED-PUB-NO:** US20020026803A

### **EQUIVALENT-ABSTRACTS:**

NOVELTY - Three operation parts (61,62,63) control the running capacity of a compressor and heat exchange capacities of condensation and evaporation side heat exchangers connected to a refrigerating cycle. A controller (15) controls the operation parts to reduce the difference of running condition at the high or low pressure side of the refrigerating cycle and a target. DETAILED DESCRIPTION - The refrigerating cycle is formed by connecting the compressor, condensation side heat exchanger, a flow control valve and the evaporation side heat exchangers while circulating a refrigerant through the refrigerating cycle.

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**CHOSEN- Dwg.2/14**  
**DRAWING:**

**TITLE-TERMS:** CONTROL SYSTEM REFRIGERATE CYCLE CONTROL COMPRESSOR HEAT EXCHANGE REDUCE DIFFER RUN CONDITION HIGH LOW PRESSURE SIDE REFRIGERATE CYCLE TARGET

**DERWENT-CLASS:** Q75 X27